

Chemical Resistance Data [Couplings]

⚠ Notes for use of Chemical Resistance Data (Hoses/Couplings/KAMLOK/Gasket)

- (1) This table is based on documents concerning the resistance of the materials used in hoses and couplings to various chemicals, and does not guarantee TOYOX products.
 (2) The data may differ according to the conditions such as usage methods, temperature, pressure, concentration and period, etc., so evaluate results as the user with the actual equipment and usage conditions.
 (3) Chemicals which are dangerous when permeating (active gases, etc.) should not be used in gaseous form. Be sure to confirm the precautions for each product or to consult TOYOX. Regarding the use of fluids not indicated in the Chemical Resistance Data, consult our website at <http://english.toyo-hose.com/>.
 (4) This data may be amended or added to based on changing product specifications or new information; check the TOYOX website for the latest data.

- ◎ = Excellent, can be used without problems.
 ○ = Good, may be affected to some extent, but can be used under general conditions.
 △ = Fair, need to verify suitability.
 × = Poor, cannot be used.
 — = No data

⚠ Caution The following tables are intended to serve only as your reference of materials, and are not intended to guarantee our products. Evaluate results as the user with the actual equipment and usage conditions.

	Material Chemical (Concentration density % / Temperature °C)	Coupling fluid contact surface					
		Brass	SCS16A/SUS316L	SCS13/SUS304	Polyacetal resin	PPSU	NBR
S	Salad oil	—	—	—	—	—	—
	Salicylic acid	◎	△	△	—	—	—
	Salt	△	△	△	◎	◎	◎
	Salt water	×	△	△	◎	—	◎
	Seawater	△	◎	◎	◎	—	◎
	Silicon tetrachloride [55°C]	—	—	—	—	—	—
	Silicone grease	—	—	—	—	—	◎
	Silicone oil	—	—	—	◎	◎	◎
	Silver nitrate	—	△	△	—	◎	△
	Soap solution	◎	◎	◎	◎	—	◎
	Sodium bicarbonate	×	△	—	◎	—	◎
	Sodium bisulfite	—	—	—	—	◎	△
	Sodium carbonate (Soda ash)	◎	△	△	◎	◎	◎
	Sodium hydrogen sulfite	—	—	—	—	—	◎
	Sodium hydroxide (Caustic soda) [30%]	—	○	△	△	◎	◎
	Sodium hydroxide (Caustic soda) [30% 70°C]	—	○	△	△	◎	◎
	Sodium hypochlorite (hypochlorous acid) [5%]	×	○	×	△	—	△
	Sodium hypochlorite (hypochlorous acid) [12%]	—	—	—	—	◎	—
	Sodium hypochlorite (hypochlorous acid) [5% 70°C]	×	○	×	×	◎	×
	Sodium hypochlorite (hypochlorous acid) [30%]	—	—	—	—	◎	—
	Sodium nitrate	△	◎	◎	◎	◎	○
	Sodium perborate	×	△	—	◎	—	○
	Sodium peroxide	×	△	△	◎	—	○
	Sodium phosphate	—	△	△	◎	◎	◎
	Sodium silicate	△	△	—	◎	—	◎
	Sodium sulfate (Glauber's salt)	◎	△	△	◎	—	◎
	Sodium sulfite	△	◎	◎	△	◎	◎
	Sodium tetraborate (Borax)	×	◎	—	◎	—	○
	Sodium thiosulfate	△	△	△	◎	—	○
	Soybean oil	△	◎	△	◎	—	◎
	Steam (100° C or above)	—	—	—	△	—	×
	Stearic acid	△	○	○	○	—	△
	Styrene	△	○	○	—	—	×
	Sugarcane liquid	—	—	—	—	—	○
	Sulfur	×	△	△	◎	◎	×
	Sulfuric acid [10%]	×	△	△	×	◎	×
	Sulfuric acid [10% 70°C]	×	△	△	×	◎	×
	Sulfuric acid [30%]	×	×	×	×	◎	×
	Sulfuric acid [30% 70°C]	×	×	×	×	◎	×
	Sulfuric acid [98%]	×	△	△	×	×	×
Sulfuric acid [98% 70°C]	×	×	×	×	×	—	
Sulfurous acid	×	△	△	—	—	○	
Sulfurous acid [10%]	—	—	—	—	—	—	